

For Research Use Only

# TGFBR3-Specific Polyclonal antibody



Catalog Number: 20000-1-AP

Featured Product

6 Publications

## Basic Information

**Catalog Number:**

20000-1-AP

**Size:**

500  $\mu$ g/ml

**Source:**

Rabbit

**Isotype:**

IgG

**GenBank Accession Number:**

NM\_003243

**GeneID (NCBI):**

7049

**UNIPROT ID:**

Q03167

**Full Name:**

transforming growth factor, beta receptor III

**Calculated MW:**

93 kDa

**Observed MW:**

110-150 kDa

**Purification Method:**

Antigen affinity purification

**Recommended Dilutions:**

WB 1:500-1:2000

## Applications

**Tested Applications:**

FC, WB, ELISA

**Cited Applications:**

WB, IF, IHC

**Species Specificity:**

human

**Cited Species:**

human, goat, mouse

**Positive Controls:**

WB : A549 cells, A431 cells

## Background Information

Transforming growth factor  $\beta$  (TGF- $\beta$ ) is a multifunctional cytokine that plays important roles in normal development and homeostasis (PMID: 8530052). There are three TGF- $\beta$  forms: TGF- $\beta$  1, TGF- $\beta$  2, and TGF- $\beta$  3. The diverse effects of TGF- $\beta$  are mediated by the TGF- $\beta$  receptors and cell surface-binding proteins. Three TGF- $\beta$  receptors exist: TGFBR1, TGFBR2, TGFBR3 (PMID: 8530052; 30184463). TGFBR3, also known as betaglycan, is a transmembrane proteoglycan that often functions as a co-receptor with other TGF- $\beta$  receptor superfamily members. In addition to the transmembrane form, the extracellular domain of TGFBR3 can be cleaved to a soluble form (sTGFBR3), which may serve as an antagonist of TGF- $\beta$  to inhibit TGF- $\beta$  signaling (PMID: 30184463). TGFBR3 has a larger apparent molecular weight than the calculated molecular weight, due to extensive carbohydrate modifications (PMID: 1556106). This antibody is specific to TGFBR3.

## Notable Publications

Author	Pubmed ID	Journal	Application
Bingyu Xie	36179941	Mol Cell Endocrinol	WB
Wenxiang Zhu	34656907	Int Immunopharmacol	
Li-Yuan Yu-Lee	29514796	Cancer Res	WB, IF

## Storage

**Storage:**

Store at -20°C. Stable for one year after shipment.

**Storage Buffer:**

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

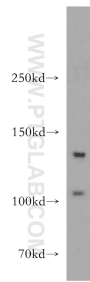
T: 4006900926

E: Proteintech-CN@ptglab.com

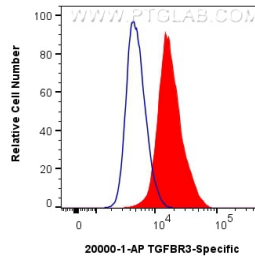
W: ptgcn.com

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## Selected Validation Data



A549 cells were subjected to SDS PAGE followed by western blot with 20000-1-AP (TGFBR3-Specific antibody) at dilution of 1:300 incubated at room temperature for 1.5 hours.



$1 \times 10^6$  A549 cells were intracellularly stained with 0.4 ug Anti-Human TGFBR3-Specific (20000-1-AP) and CoraLite® 488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Rabbit IgG control Rabbit PolyAb (30000-0-AP, Clone: ) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).